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Virus-like endosomolytically active particle - made of capsid protein virus units and being modified by membrane active peptide sequences, useful in nucleic acid transfer.

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Patent Family:

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DE 4335025	A1	19950420	DE 4335025	A	19931014	199521 B
WO 9510624	A1	19950420	WO 94EP3313	A	19941007	199521
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JP 9503665 W 45 C12N-015/09 Based on patent WO 9510624

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Abstract (Basic): DE 4335025 A

A virus-like endosomolytically active particle consisting of units of capsid proteins derived from a virus or virus-like parts and being modified by a membrane-active peptide sequence. Pref. the particle is either a modified Ty-particle consisting of TyA-protein units modified by a membrane active peptide sequence or a modified MS2-particle built from units of the MS2 capsid protein and having the membrane active peptide inserted in the beta-hairpin region between amino acids 11 and

17 of the MS2 capsid proteins. Also claimed is a method for the prodn. of the above particle.

USE - A compsn. contg. an endosomolytically active virus-like particle, pref. a transferrin-polylysine conjugate, is used for the transport of nucleic acids into higher eukaryotic cells (claimed).

ADVANTAGE - Gene transfer via endocytosis has the advantage of a non-toxic passage through the cell membrane, the admin. of a biologically active nucleic acid, specific cell targeting and the prodn. of large amts. of cell conjugates. The new gene transfer system has a high expression rate while minimising safety risks.

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